

Remaining UPCS Construction Activities

Mechanical

- Fabricate and inspect stainless steel piping
- Pump Alignment
- Grouting of steel frames, pump bases and missing curb section at Pond 2S
- Install stainless and HDPE piping
- Install air release valves
- Install pipe support
- Hydrotest of pump skid piping and conveyance pipe
- Leak detection install and testing
- Pipe insulation
- Install winches and cable
- Install PVC inlet hoses and cable system
- Paint Curb
- Label piping and valves

Civil

- Compaction testing of trench underneath pavement and vehicle access ramps
- Asphalt restoration
- Inspect earthen pipe restraints on dual walled piping and repair as required

Electrical and Controls

- Installation of feeder breaker in HDS electrical power trailer (requires HDS power outage)
- Installation of raceway in the HDS building
- Lightning protection
- Completion and Testing of grounding system
- Continuity test of tracer wire
- Installation of conduit expansion joints at PVC/Galvanized connections
- Grounding of rigid conduit
- Install flowmeters, level transmitters, and heat trace
 - Pond 4 level transmitter
- Pull power cable
- Pull fiber
- Label, terminate and test power connections
- Label, terminate and test fiber connections
- Complete conduit, wire and termination of pump motor circuits
- Complete conduit, wire and terminate pump heater and temperature switch
- Thermography survey

- Equipment insulation tests

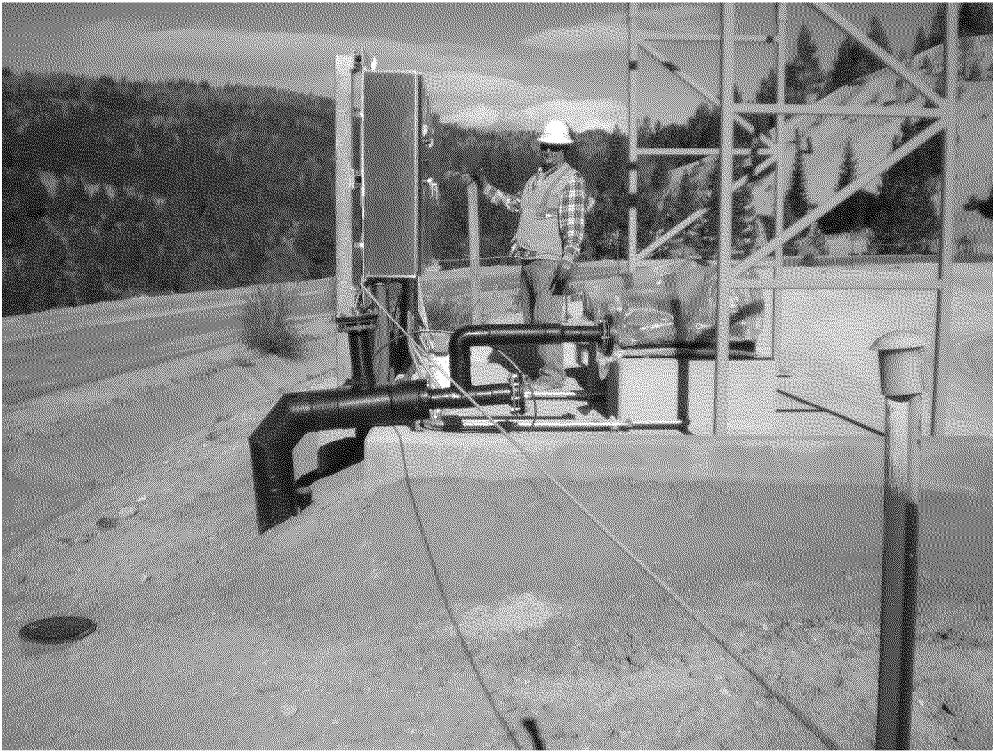
Programming

- Download program
- Functional checkout of program and commission instrumentation

Required Submittals

Item	Notes:
Power cable	needs bare ground
asphalt mix	
Pipe and Equipment markers	
SS Pipe	Welding procedure, performance qualification, pipe, fittings, nuts and bolts
Paint for concrete curbing	
Hydrotest/Pneumatic Test Equipment and Procedure	
Conduit expansion joint	

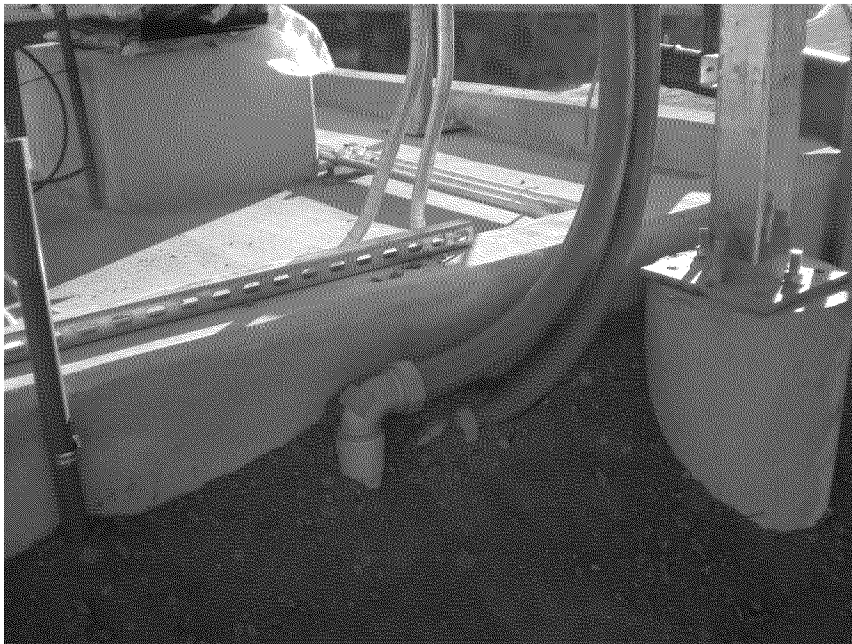
Punchlist Items



Pipe coming out of ground is not long enough



Pipe restraint needs repaired



Flexible conduit fittings are buried in the backfill